

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/27981

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : HO4L 27/36  
 US CL : 375/298

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 U.S. : Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 none

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 Please See Continuation Sheet

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,144,669 A (FAULKNER et al) 01 September 1992, col.5, lines 37-55 and claims 5,15-16.	2-4,7-9
X, P	US 2004/0095904 A1 (LAROIA et al) 20 May 2004, claims 4,7, paragraph{0035}.	2-4,7-9
A	US 4,700,387 A (HIRATA) 13 October 1987, col.1, line 65 to col.2, line 26.	1-11

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "B" earlier application or patent published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

22 July 2005 (22.07.2005)

Date of mailing of the international search report

24 AUG 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
 Commissioner of Patents  
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 Alexandria, Virginia 22313-1450

Authorized officer

Temesghen Ghebretinsae

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INTERNATIONAL SEARCH REPORT

PCT/US04/27981

**Continuation of B. FIELDS SEARCHED Item 1:**  
375/298, 261

**Continuation of B. FIELDS SEARCHED Item 3:**  
**EAST**  
scramble, pilot, frame, imaginary, real, header frame

**Box No. VIII (iv) DECLARATION: INVENTORSHIP** (only for the purposes of the designation of the United States of America)  
*The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.*

**Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv))  
for the purposes of the designation of the United States of America:**

I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.

This declaration is directed to the international application of which it forms a part (if filing declaration with application).

This declaration is directed to international application No. PCT/US2004/027981 ..... (if furnishing declaration pursuant to Rule 26ter).

I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.

I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.

Prior Applications: .....

I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Ernest C. Chen .....

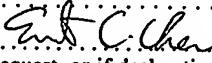
Residence: San Pedro, California .....

(city and either US state, if applicable, or country)

Mailing Address: 1025 Via Cordova .....

San Pedro, California 90732 .....

Citizenship: US .....

Inventor's Signature:  .....

(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)

Date: September 15, 2004 .....

(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

Name: Dennis Lai .....

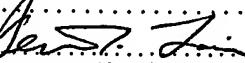
Residence: Cerritos, California .....

(city and either US state, if applicable, or country)

Mailing Address: 13227 Acero Place .....

Cerritos, California 90703 .....

Citizenship: US .....

Inventor's Signature:  .....

(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)

Date: Oct 22, 2004 .....

(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

**Continuation of Box No. VIII (i) to (v) DECLARATION**

If the space is insufficient in any of Boxes Nos. VIII (i) to (v) to furnish all the information, including in the case where more than two inventors are to be named in Box No. VIII (iv), in such case, write "Continuation of Box No. VIII ..." (indicate the item number of the Box) and furnish the information in the same manner as required for the purposes of the Box in which the space was insufficient. If additional space is needed in respect of two or more declarations, a separate continuation box must be used for each such declaration. If this Box is not used, this sheet should not be included in the request.

Continuation of Box No. VIII (iv):

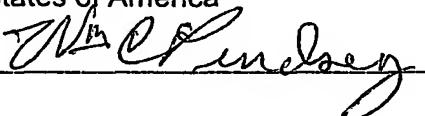
Name: Tung-Sheng Lin  
 Residence: 930 N. Monterey Street, #208  
 Mailing Address: Alhambra, California 91801

Citizenship: TAIWAN

Inventor's Signature:  Date: Oct. 22, 2004

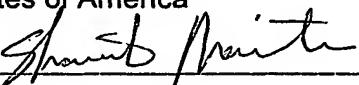
Name: William C. Lindsey  
 Residence: 1430 Marianna Road  
 Mailing Address: Pasadena, California 91105

Citizenship: United States of America

Inventor's Signature:  Date: 10/22/04

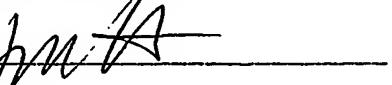
Name: Shamik Maitra  
 Residence: 1911 Camino De La Costa, Apt. 413  
 Mailing Address: Redondo Beach, California 90277

Citizenship: United States of America

Inventor's Signature:  Date: September 15, 2004

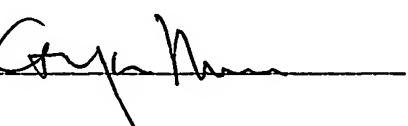
Name: Joseph Santoru  
 Residence: 5425 Meadow Vista Way  
 Mailing Address: Agoura Hills, California 91301

Citizenship: United States of America

Inventor's Signature:  Date: September 15, 2004

Name: Guangcai Zhou  
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 Mailing Address: Reseda, California 91335

Citizenship: China

Inventor's Signature:  Date: Oct. 22, 2004